EG&G ER Program
Rocky Flats Plant

(03/21/90)

ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 8904S010 **Site** 881 Hillside

Laboratory Roy F. Weston - Stockton **No. of Samples/Matrix** 1/Oil; 6/Water

SOW # 10/86 (Rev. 2/88) **Reviewer Org.** TechLaw, Inc.

Sample Numbers SW045001, SW046001, SW067001, SW033001, TB040489, TB040589B, ODEX001

Data Assessment Summary

		VOA	Comments
1.	**Holding Times**	A	Action Item 1
2.	**GC/MS Tune/Instr. Perf.**	V	
3.	**Calibrations**	A	Action Items 2,3; Comments 1,2
4.	**Blanks**	A	Action Item 4
5.	**Surrogates**	A	Action Item 5; Comment 5
6.	**Matrix Spike/Dup.**	X	Comment 3
7.	**Other QC**	V	
8.	**Internal Standards**	A	Action Items 5,6
9.	**Compound Identification**	X	Comment 4
10.	**System Performance**	V	
11.	**Overall Assessment**	A	Data acceptable with qualifications.

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables.)

"REVIEWED FOR CLASSIFICATION
By R. B. Hoffman
Date 7-11-90

REVIEWED FOR CLASSIFICATION/UCNI
By George H. Setlock
Date 6/27/90

4s010/voa

Action Items: 1) Non-detected results for aromatic compounds in the six water samples are estimated and undetected (UJ) because holding times exceeded seven days.

2) In the initial calibration of 4/13/89, Bromoform's %RSD exceeded 50%. In addition Bromoform's %D exceeded 50% in the 4/14/89 continuing calibration. Therefore, non-detected results for Bromoform in all samples are rejected (R).

3) The non-detected result for 2-Hexanone in sample ODEX001 is rejected (R) because 2-Hexanone's %D exceeded 50% for 4/15/89 continuing calibration.

4) As a result of blank contamination, the positive results for Acetone in samples SW045001, SW046001, SW067001, SW033001 and TB040489 are estimated and undetected (UJ) as per the Functional Guidelines criteria (10x rule).

5) All results of samples SW067001, SW033001, TB040489, TB040589B and ODEX001 are estimated (J) or estimated and undetected (UJ) because the recovery of surrogate Toluene-d8 did not meet criteria. In addition, the internal standard areas for 1,4-Difluorobenzene and Chlorobenzene-d5 and the recovery of surrogate Bromofluorobenzene in sample ODEX001 were outside criteria.

6) All non-detected results for compounds quantitated using the internal standard Chlorobenzene-d5 in sample ODEX001 are rejected (R) because of an extremely low area response for Chlorobenzene-d5.

Comments: 1) In the initial calibration the surrogates should have been run at five separate concentrations. This does affect the data.

2) The continuing calibrations had compounds whose %Ds exceeded 25%. No action is necessary because there were no positive results for these compounds.

3) Toluene exceeded spike recovery limits in the MS/MSD. The MS/MSD %RPDs for Toluene and 1,1-Dichloroethene were outside criteria. No action is taken because results are not qualified solely on MS/MSD data. In addition, several samples were previously qualified because of surrogate problems.

4) Three TICs were found in sample ODEX001.

5) Compounds detected below the CRQL are estimated (J) until instrument detection limits are supplied.

Note: Data Summary Tables are attached.

William T Fee — 3/26/90

Reviewer Signature — Date

TABLE #: 8904S010

SITE NAME: 881 - Hillside

CLP VOLATILE ORGANIC ANALYSIS: Low Water

ANALYTICAL RESULTS (ppb)

Sample Location											
Sample Number		VBLK019	SW045001	SW046001	SW067001	SW033001	TB040489	TB040589B	VBLK020	ODEX001	
Sampling Date			4/4/89	4/4/89	4/4/89	4/4/89	4/4/89	4/5/89		4/5/89	
Remarks		Method Blank					Trip Blank	Trip Blank	Method Blank	x20 dilution	
Volatile Compound	CRQL ug/L (ppb)	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	DQ	
Chloromethane	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
Bromomethane	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
Vinyl chloride	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
Chloroethane	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
Methylene chloride	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	1 J A		22 J A	
Acetone	10	5 ppb	10 UJ A	10 UJ A	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
Carbon disulfide	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
1,1-Dichloroethene	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
1,1-Dichloroethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
1,2-Dichloroethene (Total)	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Chloroform	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
1,2-Dichloroethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
2-Butanone	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
1,1,1-Trichloroethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Carbon tetrachloride	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Vinyl acetate	10		10 U V	10 U V	10 UJ A	10 UJ A	1 J A	10 UJ A		200 UJ A	
Bromodichloromethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
1,2-Dichloropropane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
cis-1,3-Dichloropropene	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Trichloroethene	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Dibromochloromethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
1,1,2-Trichloroethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Benzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
trans-1,3-Dichloropropene	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 UJ A	
Bromoform	5		5 U R	5 U R	5 U R	5 U R	5 U R	5 U R		100 U R	
4-Methyl-2-pentanone	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 UJ A	
2-Hexanone	10		10 U V	10 U V	10 UJ A	10 UJ A	10 UJ A	10 UJ A		200 U R	
Tetrachloroethene	5		2 J A	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
1,1,2,2-Tetrachloroethane	5		5 U V	5 U V	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
Toluene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
Chlorobenzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
Ethylbenzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
Styrene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
Xylenes (Total)	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		100 U R	
Total Organic Concentration (ppb)		5	2	0	0	0	1	1	0	22	

U Indicates the compound was not detected above the Required Quantitation Limit.

J Quantitation is approximate due to limitations identified during the quality control review.

E Exceeds calibration range, dilute & reanalyze.

CRQL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).

DQ	Data Qualifier
V	Valid
A	Acceptable with qualifications
R	Rejected

s010L/rk46